

## CLAIMS

1. An electric double-layer capacitor in which an electric double-layer capacitor body having a positive side electrode and a negative side electrode which are opposed to each other via a separator is put away in the interior of an enclosure made of a resin in a state where the electric double-layer capacitor body is immersed in an electrolyte solution and a positive side terminal portion and a negative side terminal portion exposed to the exterior of the enclosure pass through a positive side opening and a negative side opening, respectively, formed on the enclosure and are connected to the positive side electrode and the negative side electrode, respectively,

wherein the positive side terminal portion is welded to inner surfaces of the positive side opening over the entire periphery thereof, and the negative side terminal portion is welded to inner surfaces of the negative side opening over the entire periphery thereof.

2. An electric double-layer capacitor according to Claim 1, wherein

the positive side terminal portion and the negative side terminal portion are welded to the inner surfaces of the positive side opening and the inner surfaces of the negative

side opening, respectively, over the entire peripheries thereof, via resin sheets.

3. An electric double-layer capacitor according to Claim 2, wherein

the enclosure is formed of a synthetic resin having chemical resistance and thermoplasticity, and the sheet is formed of a synthetic resin having chemical resistance and thermoplasticity.

4. An electric double-layer capacitor according to Claim 3, wherein

the enclosure is formed of a resin obtained by mixing one or more types of polypropylene-series, polystyrene-series, polyethylene-series, polyester-series, and polyimide-series, and the sheet is formed of a resin obtained by mixing one or more types of polypropylene-series, polystyrene-series, polyethylene-series, polyester-series, and polyimide-series.

5. An electric double-layer capacitor according to Claim 1, comprising a pressure relief valve connecting the interior of the enclosure to the exterior when a pressure in the interior of the enclosure exceeds a predetermined pressure.

6. An electric double-layer capacitor according to Claim 1, wherein

a reinforcing portion is provided on a surface forming the enclosure.

7. An electric energy storage device including a plurality of electric double-layer capacitors according to any one of claims 1 to 6 which are connected in series,

wherein a correction circuit for correcting a variation in voltages among the plurality of electric double-layer capacitors is contained within the electric energy storage device.

8. A method of manufacturing an electric double-layer capacitor in which an electric double-layer capacitor body having a positive side electrode and a negative side electrode which are opposed to each other via a separator is put away in the interior of an enclosure made of a resin in a state where the electric double-layer capacitor body is immersed in an electrolyte solution and a positive side terminal portion and a negative side terminal portion exposed to the exterior of the enclosure pass through a positive side opening and a negative side opening, respectively, formed on the enclosure and are connected to the positive side electrode and the negative side electrode, respectively, the method comprising:

a first welding process of welding a sheet made of a resin to each of a joint portion on the positive side terminal portion which is to be joined to inner surfaces of the positive

side opening and a joint portion on the negative side terminal portion which is to be joined to inner surfaces of the negative side opening over the entire peripheries of the joint portions; and

5        a second welding process of welding the sheet which is welded to the positive side terminal portion to the inner surfaces of the positive side opening over the entire periphery thereof and welding the sheet which is welded to the negative side terminal portion to the inner surfaces of the negative  
10 side opening over the entire periphery thereof.

9. A method of manufacturing an electric double-layer capacitor according to Claim 8, wherein

the enclosure is formed of a synthetic resin having  
15 chemical resistance and thermoplasticity, and the sheet is formed of a synthetic resin having chemical resistance and thermoplasticity.

10. A method of manufacturing an electric double-layer  
20 capacitor according to Claim 8, wherein

the enclosure is formed of a resin obtained by mixing one or more types of polypropylene-series, polystyrene-series, polyethylene-series, polyester-series, and polyimide-series, and the sheet is formed of a resin obtained by mixing one or  
25 more types of polypropylene-series, polystyrene-series, polyethylene-series, polyester-series, and polyimide-series.